WHAT IS CLAIMED IS:

A method for treatment or prevention of an angioproliferative condition which 1. 1 comprises administering to a patient experiencing said angioproliferative 2 condition a pharmaceutically effective amount of a proteinase to exert an 3 angiostatic effect. 4 1 The method according to claim 1 wherein said angioproliferative condition is a 2. 1 carcinoma, sarcoma, melanoma, ocular retinopathy, retrolental fibroplasia, 2 psoriasis, angiofibromas, endometriosis, hemangioma, rheumatoid arthritis, 3 capillary proliferation within atherosclerotic plaque, or a combination of such 4 disorders. 5 1 The method according to claim 1 wherein said proteinase is derived from a 3. 1 bacterium. 2 1 The method according to claim 3 wherein said bacterium is Porphyromonas 1 4. gingivalis. 2 1 The method according to claim 4 wherein said protease is PrtP, HagA, other 5. 1 cysteing proteinase, a HagArep peptide, a fragment or active site thereof, or DNA. 2 1 A composition for treatment or prevention of an angioproliferative condition 1 6. comprising a pharmaceutically effective amount of a proteinase and an excipient 2 for administration to a patient afflicted with said angioproliferative disorder. 3 1 The composition according to claim 6 wherein said angioproliferative condition is 1 7. a carcinoma, sarcoma, melanoma, ocular retinopathy, retrolental fibroplasia, 2 psoriasis, angiofibromas, endometriosis, hemangioma, rheumatoid arthritis, 3

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4		capillary proliferation within atherosclerotic plaque, or a combination of such
5		disorders.
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1	8.	The composition according to claim 6 wherein said proteinase is derived from a
2		bacterium.
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1	9.	The composition according to claim 8 wherein said bacterium is <i>Porphyromonas</i>
2		gingivalis.
1		
1	10.	The composition according to claim 9 wherein said protease is PrtP, HagA, other
2		P. gingivalis proteinase, a HagArep peptide, a fragment or active site thereof, or
3		DNA
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1	11.	A method for selectively treating an angioproliferative condition which comprises
2		contacting the vasculature supplying a biological structure affected by said
3		angioproliferative condition with an angiostatically effective amount of a
4		protease.
1		
1	12.	The method according to claim 11 wherein said proteinase is contacted with the
2		basolateral surface of said vasculature.
1		
1	13.	The method according to claim 11 wherein said angioproliferative condition is a
2		carcinoma, sarcoma, melanoma, ocular retinopathy, retrolental fibroplasia,
3		psoriasis, angiofibromas, endometriosis, hemangioma, rheumatoid arthritis,
4		capillary proliferation within atherosclerotic plaque, or a combination of such
5		disorders.
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1	14.	The method according to claim 12 wherein said protease is derived from a
2		bacterium.

The method according to claim 12 wherein said bacterium is Porphyromonas 15. 1 gingivalis. 2 1 The method according to claim 15 wherein said protease is PrtP, HagA, other 16. 1 proteinase a HagArep peptide, a fragment or active site thereof, or DNA... 2 1 A method for potentiating the effects of a chemotherapeutically effective agent 1 17. which comprises co-administering said chemotherapeutically effective agent in 2 the presence of a protease effective to disrupt cell-cell adhesion, cell-matrix 3 adhesion, or both. 4 1 A method for preventing the implantation or sustenance of a fertilized ovum 1 18. which comprises administering an angiostatically effective amount of a proteinase 2 to a person in whom such preventing is required, sufficient to prevent formation 3 of new vasculature required for implantation or sustenance of said fertilized 5 ovum. 1 A method for inhibiting vascular endothelial cell migration which comprises 19. 1 contacting vascular endothelial cells with a molecule selected from the group 2 consisting of cysteine proteinase, HagA protein, HagA peptide, HagA-specific 3 enzymatic activity, HagA active site mimetic, HagA analog, and combinations 4 thereof or DNA 5 1 A method for reducing cell-cell adhesion, cell-matrix adhesion, or both, which comprises 1 2 group consisting of a cysteine proteinase, HagA protein, HagA peptide, HagA-specific 3

contacting cells, matrix or both with an effective amount of a molecule selected from the enzymatic activity, HagA active site mimetic, HagA analog, and combinations thereof or 4

DNA 5